

MEDZHOYAN, A.L.; BAVIYAN, N.A.; DOKHIYAN, A.A.

Amines and their derivatives. Report No.1: Preparation of various
n-alkoxybenzylalkylamines. Izv. AN Arm. SSR. Khim.nauki 11 no.4:
273-279 '58. (MIRA 11:11)

1. Institut tonkoy organicheskoy khimii AN ArmSSR..
(Amines)

BAVKO, A.K.; SHTOKALO, M.I.

Coprecipitation in quantitative analysis. Part 3. Radioactive tracer study of antimony manganese dioxide coprecipitation. Zav. lab. 21 no.7:767-773 '55. (MIRA 8:10)

1. Institut obshchey i neorganicheskoy khimii Akademii nauk USSR
(Precipitation (Chemistry)) (Antimony) (Manganese dioxide)

~~NAVLI. 87~~

Planning and keeping accounts of production costs in the milling
and groats industry. Muk.-elev.prom. 23 no.1:12-14 Ja '57.
(MLRA 10:5)

1.Odesskiy tekhnologicheskii institut.
(Grain milling--Accounting)

BAVLI, Georgiy Samoylovich; NASLEDKOV, Ivan Melent'yevich; RUBIN, M.,
red.; MOLCHANOVA, T., tekhn.red.

[Economical operation is the method of socialist management]
Rezhim ekonomii - metod sotsialisticheskogo khoziaistvovaniia.
Odessa, Odesskoe obl.izd-vo, 1958. 37 p. (MIRA 13:1)
(Odessa--Printing machinery and supplies)
(Factory management)

BAVLI, Georgiy Samoylovich, prepodavatel'; NASLEDKOV, Ivan Melent'yevich
ROBIN, M., Fed., MOLCHANOVA, T., tekhn.red.

[Economizing is a key element of socialist economic management]
Rashim ekonomii - metod sotsialisticheskogo khoziaistvovaniia.
Odesskoe obl. izd-vo, 1958. 37 p. (MIRA 12:2)

1. Direktor zavoda poligraficheskikh mashin "Odespoligrafmash"
(for Nasledkov).
(Efficiency, Industrial) (Costs, Industrial)

BAVLI, G.

Calculating the profitableness of new measures introduced for
increasing the output of high-grade flour. Muk.-elev. prom. 24
no.1:13-15 Ja '58. (MIRA 11:2)

1.Odesskiy tekhnologicheskii institut im. I.V. Stalina.
(Flour mills--Accounting)

UGOLIK, Nikolay Fomich; BAVLI, G.S.

[Analysis of the economic activity of flour, groat, and feed mills] Analiz khoziaistvennoi deiatel'nosti mukomol'nykh, krupianykh i kombikormovykh predpriatii. Moskva, Khleboisdat, 1960. 87 p. (MIRA 14:4)
(Four mills) (Feed mills)

UGOLIK, Nikolay Fomich; BAVLI, Georgiy Samoylovich; AVERINA, T.I.,
red.; GOLUBKOVA, L.A., tekhn. red

[Analysis of technical standards and production operations
of grain-processing enterprises] Analiz tekhnicheskogo
urovnia i proizvodstvenno-khoziaistvennoi deiatel'nosti
predpriatii po pererabotke zerna. Moskva, TSinti, 1963.
209 p. (MIRA 17:2)

BAVLI. P.G.

Results of tuberculosis treatment in children. Zh. v. Bel. 9
no. 7:62-65 J1'63 (MIRA 17:4)

1. Zaveduyushchaya detskimi tuberkuleznym otdeleniyem IV klini-
cheskoy bol'nitsy Minska (glavnyy vrach Ye.M. Sel'dimirova).

PETROV, Yu.V.; BAVLI, Ya.L.

Cancer and sarcoma of cicatrices of the skin on the back successfully cured by electric excision and plastic repair of the defect.
Vop.onk. 7 no.11:84-87 '61. (MIRA 15:5)

1. Iz khirurgicheskogo otdeleniya (zav. - chlen-korrespondent AMN SSSR prof. S.A. Kholdin) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov).
(CICATRICES) (SKIN—CANCER) (ELECTROSURGERY)

RAVLI, Z.

Methods of determining labor productivity in U.S.S.R. maritime ports. Mor.
i rech. flot 13 no.2:5-8 Je '53. (MLBA 6:8)

(Loading and unloading)

BAVLINKA, J.

Organization and standardization of work in
the management of national enterprises of
light industry. p. 155. SKLAR A KERAMIK,
(Ministerstvo lehkeho prumyslu) Praha.
Vol. 6, no. 7, July 1956.

SOURCE:

East European Accessions List, (EEAL),
Library of Congress. Vol. 7, no.12,
December 1955.

BAVLNKA, J.; BROZ, R.

"Methods for reducing working hours."

p. 189 (Kozarstvi) Vol. 6, no. 11, Nov. 1956.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BAVLNKA, J.

Prices of consumer goods depend on labor productivity. p. 1

SKLAR A KERAMIK Vol. 6, no. 1, Jan. 1956

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

PAVLKA, J.: BHOZ, R.

The problem of management and planning in socialist industry. p.98. (Sklar A Keramik. Praha. Vol. 7, no. 4, April 1957.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957, Uncl.

BAVLINKA, J. BROZ, R.

Problems of the management and planning of socialist industry. p, 122.

(Textil. Vol. 12, no. 4, Apr. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

1. BAVOROVSKIY, S. M.
2. USSR (600)
4. Mechanical Models
7. Republic exposition of children's technical creative work. Fiz v shkole No. 1
1953

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

BAVOROVSKIY, S.M.

The Kiev medal of Lenin Polytechnical Institute in aid to schools. Fiz.
v shkole 13 no.4:95 J1-Ag '53. (MIRA 6:6)

(Teachers, Training of)

BAV. ILO., A. I.
Prakicheskaya Hidrologiya.
Leningrad, 1948.
105r.

A pamphlet for workers on water supply dealing with basic hydrological concepts, hydrological observations, and application of hydrology in the construction of hydro-electric power stations, water supply, and irrigation, canals, etc., published by the State Hydro-Meteorological Publishing House.

Bavrilova, L.P.
ZHAMENSKAYA, M.P.; BELOZERSKIY, A.N.; BAVRILOVA, L.P.

Some data on the formation of complexes of reserve proteins with nucleic acids [with summary in English]. Biokhimiia 22 no.5: 765-775 S-O '57. (MIRA 11:1)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR, Moskva.
(NUCLEOPROTEINS,
form from reserve proteins & nucleic acids (Rus))

VOLSHTEYN, L.M.; BAVRIN, A.P.

Electric conductivity of glycol complex chromium compounds. Izv. Sekt.
plat.i blag.met. no.27:47-61 '52. (MLRA 7:5)

1. Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR.
(Chromium organic compounds)

BAURIN, A.P.

CH The viscosity of water solutions of the complex compounds of chromium with glycine. L. M. Volshtein, A. P. Baurin, and V. P. Molodtsov. *Izv. Akad. Nauk S.S.S.R. Khim. Biol. Med. Biol.* 1954, 27, 20 (1954); C.A. 48, 10038a. The change in viscosity with concn. of 11 complexes of Cr with glycine (either as a mol. or as the radical $\text{NH}_2\text{CH}_2\text{COO}^-$) was studied. The no. of glycine units per mol. of complex varied from 2 to 6. η rises rapidly with increasing concn. Compds. containing a higher η than compds. that do not contain the radical that forms a ring with the Cr. J. Rovtar Leach

② 11/21/54

1/12/66 by L.
TEMLYAKOV, A.A.; BAVRIN, I.

Form of a pair of integer functions univalent in a space of two
complex variables. Uch. zap. MOPI 39 no.3:19-21 '56 (MLRA 10:4)
(Spaces, Generalized)

BAVRIN, I.I.

Exact evaluation of coefficients. Uch. zap. MOPI 57 no.4:19-24
'57. (MIRA 11:6)
(Functions of complex variables)

BAVRIN, I.I.

Form of a couple of analytic functions univalent in the space
of two complex variables whereby one of these functions is entire.
Uch. zap. MOPI 57 no.4:33-37 '57. (MIRA 11:6)
(Functions, Analytic)

BAVRIN, I.I., Cand Phys Math Sci -- (diss) "Evaluations in the theory of analytic functions of two complex variables." Mos, 1959, 7 pp (Min of Education RSFSR. Moskovskaya Oblast Pedagogical Inst im N.K. Krupskaya) 150 copies. Bibliography at end of text (10 titles) (KL, 35-59, 111)

- 3 -

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S/044/60/000/007/008/058

C111/C222

16.3000

AUTHOR: Bavrin, I.I.

TITLE: Estimations and entire functions

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 74.
Abstract no.7524. Uch.zap.Mosk.obl.ped.in-ta, 1959, 77,
53-78

TEXT: Let D be a complete doubly circular region the boundary S of which is analytically convex from the exterior. A.A.Temlyakov has shown that the hypersurface S admits the parameter representation $|w| = r_1(\tau)$, $|z| = r_2(\tau)$, where the functions $r_1(\tau)$ and $r_2(\tau)$ defined on the interval $[0,1]$ satisfy the conditions

$$r_1(0) = 0, \quad r_1(1) < \infty, \quad r_1'(\tau) > 0$$

$$r_2(\tau) = \exp \left\{ - \int_0^\tau \frac{\tau}{1-\tau} d \ln r_1(\tau) \right\}.$$

Let S_r ($0 < r \leq 1$) denote the hypersurface $\{|w| = rr_1(\tau), |z| = rr_2(\tau)\}$.

Let furthermore

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Estimations and entire functions

$$M_F(r) = \max_{(w,z) \in S_r} |F(w,z)|, \quad A_F(r) = \max_{(w,z) \in S_r} \operatorname{Re} F(w,z),$$

$$m_f(r) = \min_{(w,z) \in S_r} |F(w,z)|,$$

where $F(w,z) = \sum_{m,n=0}^{\infty} a_{m,n} w^m z^n$ is a function analytic in D. Starting from the integral representation of Temlyakov the author at first obtains certain estimations of the numbers $|a_{m,n}|$ by $M_F(1)$ and $A_F(1)$. For the case that D is the bicylinder $\{|w| < R_1, |z| < R_2\}$ it is proved especially (theorem 1) that

$$|a_{m,n}| \leq 2(A_F(1) - \operatorname{Re} F(0,0)) R_1^{-m} R_2^{-n}.$$

Furthermore, with the same method, the author proves the following inequalities between $M_F(r)$ and $A_F(1)$, $m_F(r)$ and $M_F(1)$ (theorems 12, 13):

a) $M_F(r) \leq 2(A_F(1) - \operatorname{Re} F(0,0))((1-r^1/n)^{-2}-1) + |F(0,0)|$, where n is the

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least integer not smaller than $\sup_{\tau} \frac{d \ln r_1(\tau)}{d \ln \tau}$.

b) $\ln m_F(r) \geq -2((1-r^{1/n})^{-2}-1) \ln M_F(1)$ under the condition that

$F(w,z) \neq 0$ if $(w,z) \in D$, and that $F(0,0) = 1$.

Besides the author obtains some other inequalities of the same type.

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

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16.3200
AUTHOR:
TITLE:

Bavrin, I.I.

Some inequalities for regular functions of two complex variables

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 74.
Abstract no.7525. Uch.zap.Mosk.obl.ped.in-ta, 1959, 77, 79-89

TEXT: The notations are the same as in the preceding review 7524. Let the function $F(w,z)$ analytic in the region D , satisfy the conditions: $F(0,0) = 1$ and $\operatorname{Re} F(w,z) > 0$ for $(w,z) \in D$. Then for $(w,z) \in S_r$ it holds the inequality

$$\frac{(1-r)^2}{1+2r-r^2} \leq |F(w,z)| \leq \frac{1+2r-r^2}{(1-r)^2}.$$

[
So

An inequality somewhat different from this inequality is proved for the case where $D = \{|w| < R_1, |z| < R_2\}$. Furthermore the author proves inequalities which differ from the inequalities of the theorems 12 and 13 of the above mentioned paper, by replacing by 1 the number n appearing in these theorems. From the obtained estimations the author

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16.3200

AUTHOR: Bavrin, I.I.

TITLE: Some inequalities for regular functions of two complex variables

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 74.
Abstract no.7525. Uch.zap.Mosk.obl.ped.in-ta, 1959, 77, 79-89

TEXT: The notations are the same as in the preceding review 7524. Let the function $F(w, z)$ analytic in the region D , satisfy the conditions: $F(0, 0) = 1$ and $\operatorname{Re} F(w, z) > 0$ for $(w, z) \in D$. Then for $(w, z) \in S_r$ it holds the inequality

$$\frac{(1-r)^2}{1+2r-r^2} \leq |F(w, z)| \leq \frac{1+2r-r^2}{(1-r)^2}.$$

An inequality somewhat different from this inequality is proved for the case where $D = \{|w| < R_1, |z| < R_2\}$. Furthermore the author proves

inequalities which differ from the inequalities of the theorems 12 and 13 of the above mentioned paper, by replacing by 1 the number n appearing in these theorems. From the obtained estimations the author
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Some inequalities....

obtains, by a mapping of the bicylinder ($|w| < 1, |z| < 1$) onto the region ($\text{Im } w > 0, \text{Im } z > 0$), the following inequalities for a function $F(w, z)$ being analytic in the region ($\text{Im } w > 0, \text{Im } z > 0$) and there having a positive imaginary part:

$$\frac{\sin \theta \sin \varphi}{4r_1 r_2 F(1, 1)} < |F(w, z)| < \frac{4r_1 r_2 F(1, 1)}{\sin \theta \sin \varphi}$$

$$(w = r_1 e^{i\theta}, z = r_2 e^{i\varphi}, 0 < \theta < \pi, 0 < \varphi < \pi, r_1 > 1, r_2 > 1).$$

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

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88853

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C111/C222

16.2600

AUTHOR:

Bavrin, I.I.

TITLE:

Extension of the theorem of Pringsheim

PERIODICAL:

Referativnyy zhurnal. Matematika, no.7, 1960, 73.
Abstract no.7519. Uch zap. Mosk.obl.ped. in-ta, 1959, 77,
127-129

TEXT: The well-known theorem of Pringsheim on the position of the singular points on the boundary of the circle of convergence is transferred to the case of several variables. The author considers functions being analytic either in the bicylinder $\{|w| < R, |z| < R\}$ or in the hypercone $\{|w| + |z| < R\}$.

One of the two proved theorems reads:

Theorem 5: If the coefficients of the series

$$\varphi(w, z) = \sum_{m, n=0}^{\infty} a_{m, n} w^m z^n \quad (1)$$

which converges absolutely in the hypercone $\{|w| + |z| < R\}$, are real non-negative numbers then at least one point (w_0, z_0) , where $\arg w_0 = 0$,

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Extension of the theorem...

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$\arg z_0 = 0$, is singular on the hypersurface $\{|w| + |z| = R\}$ for the sum of the series (1).

Reviewer's remark: In the formulation of theorem 5 the obvious claim that the series (1) does not converge in the hypercone $\{|w| + |z| = R_1\}$, where $R_1 > R$, is missing.

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

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16(1)

AUTHOR: Bavrin, I.I.

SOV/20-126-5-1/69

TITLE: Estimations in the Theory of Analytic Functions of two Complex Variables

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 919-922 (USSR)

ABSTRACT: The author generalizes estimations for the functions of Schur, Caratheodory etc. to corresponding functions of two complex variables.

Let $D \ni (0,0)$ be a bounded, complete, bicircular domain, the boundary of which is two times continuously differentiable and analytically convex from outside. Temlyakov [Ref 1] showed that D can be defined as a domain bounded by the hypersurface $|w| = r_1(\tau)$, $|z| = r_2(\tau)$, $0 \leq \tau \leq 1$, whereby $r_1(\tau)$ and $r_2(\tau)$ satisfy certain conditions (see [Ref 1]). Let those domains D be denoted by D_1 for which the curves, corresponding to the limits of these domains in the "absolute quarter plane", are convex or form straight lines. Let D_r denote a bicircular domain containing its center $(0,0)$ and which is bounded by the

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Estimations in the Theory of Analytic Functions
of two Complex Variables

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hyper surface $|w| = r_1(\tau)$, $|z| = r_2(\tau)$, $0 < \tau \leq 1$,
whereby $r_1(\tau)$ and $r_2(\tau)$ satisfy the conditions of Temlya-
kov.

Theorem: If $F(w, z) = \sum_{m, n=0}^{\infty} a_{mn} w^m z^n$ is regular in D and

$|F(w, z)| \leq 1$, then it is

$$|a_{mn}| \leq \frac{1 - |a_{00}|^2}{r_1^m \left(\frac{m}{m+n} \right) r_2^n \left(\frac{n}{m+n} \right)}$$

where $m + n > 0$ and $0^0 = 1$.

Theorem: Let $F(w, z)$ be regular in D_1 and $\operatorname{Re} F(w, z) \geq 0$ in D_1 .

Then in D_1 it holds:

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Estimations in the Theory of Analytic Functions
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$$|w F'_w(w, z) + z F'_z(w, z)| \leq \frac{2a \operatorname{Re} F(w, z)}{1 - a^2}$$

where

$$a = \begin{cases} \frac{|w|}{r_1(1)} & \text{for } z = 0, \\ \frac{|z|}{r_2(0)} & \text{for } w = 0 \\ \max_{0 < \tau < 1} \left[\tau \frac{|w|}{r_1(\tau)} + (1 - \tau) \frac{|z|}{r_2(\tau)} \right] & \text{for the other points of } D_1. \end{cases}$$

Theorem : If $F(w, z)$ is regular in D_1 , $F(0, 0) = 1$, $F(w, z) \neq 0$ in $\overline{D}_1$, then it is

$$\ln |F(w, z)| \geq - \frac{2a}{1-a} \ln M_F(1), \quad M_F(1) = \max_{\substack{|w|=r_1(\tau) \\ |z|=r_2(\tau)}} |F(w, z)|$$

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Estimations in the Theory of Analytic Functions
of two Complex Variables

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Altogether there are six theorems. Functions for which the given estimations are obtained are given in most cases in subsequent remarks so that the estimations are rigorous. The proofs are based on the integral representation of the boundary in D_r according to Temlyakov [Ref 2].

The author thanks Professor A.A. Temlyakov.

There are 9 references, 8 of which are Soviet and 1 English.

ASSOCIATION: Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K. Krupskoy (Moscow Regional Pedagogical Institute imeni N.K. Krupskaya)

PRESENTED: March 5, 1959, by M.A. Lavrent'yev, Academician

SUBMITTED: February 24, 1959

Card 4/4

BAVRIN, I.I.

Accuracy of estimations of distribution coefficients of analytic functions of two complex variables with a bounded (above) or nonnegative real part. Uch. zap. MGPI 96:85-87 '60. (MIRA 16:7)

(Functions of complex variables)
(Functions, Analytic)

BAVRIN, I. I.

Estimates of distribution coefficients of analytic functions
of two complex variables. Uch. zap. MCPI 96:89-108 '60.
(MIRA 16:7)

(Functions of complex variables)
(Functions, Analytic)

BAVRIN, I.I.

Estimates of mixed derivatives of analytic functions of two
complex variables. Uch. zap. MGPI 96:109-116 '60. (MIRA 16:7)

(Functions of complex variables)
(Functions, Analytic)

BAVRIN, I.I.

Estimates for regular functions of two complex variables. Uch.
zap. MCPI 96:117-125 '60. (MIRA 16:7)

(Functions of complex variables)

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S/020/60/131/06/001/071

AUTHOR: Bavrin, J. J.

TITLE: Estimates of Taylor's Coefficients for Functions of
Many Complex Variables

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 131, No. 6,
pp. 1231-1233

TEXT: Let $D \ni (0, \dots, 0)$ be a polycircular domain of the complex variables $z_1, \dots, z_n$ which is subdomain of a certain domain of regularity and is bounded by the nonanalytic surface

$$|z_1| = r_1(\tau_1) \dots r_1(\tau_{n-1})$$

$$|z_2| = r_2(\tau_1) r_2(\tau_2) \dots r_2(\tau_{n-1})$$

$$|z_3| = r_3(\tau_1) r_3(\tau_2) r_3(\tau_3) \dots r_3(\tau_{n-1})$$

$$\dots$$

$$|z_i| = r_i(\tau_1) r_i(\tau_2) \dots r_i(\tau_{n-1})$$

$$\dots$$

$$|z_{n-1}| = r_{n-1}(\tau_1) r_{n-1}(\tau_2) \dots r_{n-1}(\tau_{n-1})$$

$$|z_n| = r_n(\tau_1) r_n(\tau_2) \dots r_n(\tau_{n-1})$$

$$0 \leq \tau_i \leq 1$$

$$i = 1, 2, \dots, n-1$$

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Estimates of Taylor's Coefficients for Functions of Many Complex Variables

where $r_1(0) = 0$, $r_1(\tau) > 0$ in $(0, 1]$, $r_1(1) < \infty$ and

$$r_1(\tau) = \exp \left[- \int_{\tau}^1 \frac{\tau}{1-\tau} d \ln r_1(\tau) \right], \quad r_2(1) = 0.$$

Theorem 1: If $F(z_1, \dots, z_n) = \sum_{m_1, \dots, m_n=0}^{\infty} a_{m_1, \dots, m_n} z_1^{m_1} \dots z_n^{m_n}$,

where $a_{m_1, \dots, m_n}$ is given, is regular in D and if it is $|F(z_1, \dots, z_n)| < 1$ in D , then for $m_1 + \dots + m_n > 0$ there holds the estimation

$$(2) \quad |a_{m_1, \dots, m_n}| \leq \frac{1 - |a_{0, \dots, 0}|^2}{M}$$

where

$$M = \prod_{i=1}^{n-1} r_i^{\sum_{k=1}^i m_k} \left(\frac{\sum_{k=1}^i m_k}{\sum_{k=1}^{i+1} m_k} \right) r_2^{m_{i+1}} \left(\frac{\sum_{k=1}^i m_k}{\sum_{k=1}^{i+1} m_k} \right)$$

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Estimates of Taylor's Coefficients for Functions of Many Complex Variables

Theorem 2: If F with $a_{0,0,0} = 1$ is regular in D and $\operatorname{Re} F(z_1, \dots, z_n) > 0$, then for $m_1 + \dots + m_n > 0$ there holds the estimation

$$(5) \quad |a_{m_1, \dots, m_n}| \leq \frac{2}{M}$$

The estimations (2) and (5) are rigorous.

The author mentions A. A. Temlyakov.

There are 3 Soviet references.

ASSOCIATION: Moskovskiy oblastnoy pedagogicheskiy institut imeni
N. K. Krupskoy (Moscow Regional Pedagogical Institute
imeni N. K. Krupskaya)

PRESENTED: December 22, 1959, by M. A. Lavrent'yev, Academician

SUBMITTED: December 17, 1959

Card 3/3

MAVRIN, I.I.

Criteria for regular functions belonging to two classes of
functions of two complex variables. Dokl. AN SSSR 152 no.2:
255-258.S '63. (MIRA 16:11)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy.

BAVRIN, I.I.

Coefficients of a certain class of analytic functions of two
complex variables. Dokl. AN SSSR 137 no.3:495-498 Mr '61.
(MIRA 14:2)

1. Moskovskiy oblastnoy pedagogicheskiy institut im.N.K.Krupskoy.
Predstavleno akademikom M.A.Lavrent'yevym.
(Functions, Analytic)

BAVRIN, I.I.

Certain classes of analytic functions of two complex variables.
Dokl. AN SSSR 143 no.5:1011-1013 Ap '62. (MIRA 15:4)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N. K.
Krupskoy. Predstavleno akademikom V.I.Smirnovym.
(Functions of complex variables)

BAVRIN, I.I.

Uniqueness of extremum functions in evaluations of Taylor's
coefficients of bounded functions of two complex variables.
Dokl.AN SSSR 145 no.6:1195-1198 Ag '62. (MIRA 15:8)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy.
Predstavleno akademikom M.A.Lavrent'yevym.
(Functions of complex variables)

BAVRIN, I.I. (Moskva)

Strengthening of estimates for certain classes of regular functions
of two complex variables. Mat. sbor. 61 no.3:319-333 J1 '63.

(MIRA 16:7)

(Functions of complex variables)

BAVRIN, I.I.

Evaluations in the theory of regular functions of two complex variables. Dokl. AN SSSR 151 no.5:1003-1006 Ag '63.

(MIRA 16:9)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy.
Predstavleno akademikom V.I.Smirnovym.

(Functions of complex variables)

BAVRIN, I.I.

Some appraisals of coefficients of bounded holomorphic functions.
Dokl. AN SSSR 161 no.3:503-506 Mr '65.

(MIRA 18:4)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy.
Submitted September 25, 1964.

BAVRIN, I.I.

~~Estimates in the theory of regular functions of several complex variables.~~ Dokl. AN SSSR 163 no.4:791-794 Ag '65.

(MIRA 18:8)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy.
Submitted January 18, 1965.

BAVRIN, I.I.

Some classes of regular functions of several complex variables.

Dokl. AN SSSR 163 no.6:1303-1306 Ag '65.

(MIRA 18:8)

1. Institut matematiki im. V.I.Romanovskogo AN UzSSR. Submitted
January 28, 1965.

BAVRIN, Ye.: PROKHOROV, G.

Achievements in the economic development of the Mongolian People's
Republic. Vop.ekon.no.7:69-78 J1 '56. (MLRA 9:9)
(Mongolia--Economic conditions)

BAVRIN, Ye.

Mongolian People's Republic is extending its economic relations
with other countries. Vnesh. torg. 28 no.8:29-30 '58. (MIRA 11:9)
(Mongolia--Foreign economic relations)

BAVRIN, Ye.P.; MESHCHERYAKOV, M.V.; SLADKOVSKIY, M.I., doktor ekon. nauk,
red.; ZINCHENKO, V.S., red. izd-va; TSAGURIYA, G.M., tekhn. red.

[The Mongolian People's Republic; economy and foreign trade] Mongol'-
skaia Narodnaia Respublika; ekonomika i vneshniaia trgovlia. Moskva,
Vneshtorgizdat, 1961. 151 p. (MIRA 14:11)
(Mongolia--Commerce) (Mongolia--Economic conditions)

BAVRIL, Ye.F., starshina 1-oy stat'i, barsant

Accuracy of measurements of the navigational parameter by means of
the KPI-3M. Mor. sbor. 48 no.3:68-71 Mr '65.

(MIRA 18:8)

1. Vyssheye voyenna-morskoye uchilishche.

BAVRINA, M.I.; BUKALOVA, V.V. (g.L'vov)

Interchangeable over-all shop accounting at railroad yards.
Zhel.dor.transp. 40 no.11:79-81 N.'58. (MIRA 11:12)

1. Starshiy inzhener-ekonomist finansovogo otdela L'vovskoy
dorogi (for Bavrina). 2. Starshiy inzhener slushby dvizheniya
L'vovskoy dorogi (for Bukalova).

(Railroads--Yards)
(Railroads--Accounts, bookkeeping, etc.)

~~RAYRINA, S.S.~~; ~~SOLDATOV, N.V.~~

The KGL sheet-bending machines. Kuz.-shtan. proizv. 1 no.7:26-28
Jl '59.

(MIRA 12:10)

(Sheet-metal work)

BAVRINA, T.V.

CHAYLAKHYAN, M.Kh.; BAVRINA, T.V.

Effect of the length of the day on the pigment content of plant leaves [with summary in English]. Fiziol. rast. 4 no.4:312-321
Jl-Ag '57. (MLBA 10:9)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva Akademii
nauk SSSR, Moskva.
(Photoperiodism) (Color of plants)

BAVRINA, T.V.

Diurnal dynamics of chlorophyll content in plant leaves. *Fiziol.
rast.* 6 no.2:213-216 Apr '59. (MIRA 12:5)

1. K.A.Timiryazev Institute of Plant Physiology, U.S.S.R.
Academy of Sciences, Moscow.
(Chlorophyll)

BAVRO, G.V., Cand Bio Sci—(disc) " On the terminal period of ^{acute}radio-
diation sickness." Rev, 1957. 10 pp (Acad Med Sci ~~USSR~~ USSR),
(RL,22-58,105)

Handwritten:
no further
info

- 54 -

BAVRO, B. V.

USSR / Human and Animal Physiology. Effect of physical factors. T-13

Abstr Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3945

Author : BAVRO, G. V.

Inst : Not given

Title : Terminal Period of Acute Irradiation Disease

Orig Pub : Med radiologiya, 1957, 2, No 2, 31-41

Abstract : The terminal stage was studied in rabbits that died 7 - 15 days after a single X-ray irradiation with a total dose of 1,000 r. A disturbance in the activity of the cerebral cortex and lower cerebral sections preceding fall of blood pressure and depression of the action of heart and respiration was noted in a number of cases. Activation, prior to depression, of the functions of vitally important systems (elevation of blood pressure, more frequent and deeper respiration), elevation of blood pressure after transection of the vagus

Card 1/2

107

BAVRO, G.V.

Changes in the impulse pattern in the trunk of the vagus nerve of rabbits in acute radiation sickness. Med. rad. 5 no.9:13-18 S '60.
(MIRA 13:12)

(RADIATION SICKNESS)

(VAGUS NERVE)

27 2400

40474

S/205/62/002/007/015
1020/1215

AUTHOR: Bavro, G. V.

TITLE: The central link of the vascular unconditioned reflex arch in radiation sickness

PERIODICAL: Radiobiologiya, v. 2, no. 2, 1962, 265-271

TEXT: The excitability of the vasomotor center was examined during radiation sickness. 9 rabbits were subjected to a whole-body irradiation of 1000r. Two platinum electrodes, 0.2 mm in diameter and 0.1 mm apart, were inserted into the fundus of the rhomboid fossa of a rabbit 3-5 weeks prior to irradiation. The site of the electrodes was chosen by the response to stimulation. Blood pressure was examined in the carotid artery till the death of the animals. The excitability of both the pressor and depressor part increased after irradiation. In 5 out of 9 rabbits a reversal in the characteristics of the response occurred after irradiation. This is explained by the increased excitability of the pressure center which easily becomes over-excited and passes to the state of protective inhibition (lasting only 24 hours.) Subsequently the resistance of this center returned to its original value. The resistance of the depressor part of the vasomotor center decreased 24 hours after irradiation and the blood pressure increased during radiation sickness. The tonus of the depressor center increased before death, resulting, probably, in the observed decrease in blood pressure. Irradiation brings about changes in the cardiac center as well. The cardiac activity decreased following a threshold stimulus

Card 1/2

The central link of the vascular...

S/205/62/002/002/007/015
1020/1215

but blood pressure did not change. A maximal decrease of blood pressure was observed within 5-24 hours after irradiation. The pressure returned to its initial level 2 days later dropping again a few hours before death. Changes in the excitability of the vasomotor center might be responsible for the appearance of the hemodynamic disorders observed in radiation sickness. There are 3 figures.

SUBMITTED: August 17, 1961

X

Card 2/2

L 24210-66 -	EWI(1)/EWI(m)/EWP(j)/T	RO/JK/RM
ACC NR: AP6015177	SOURCE CODE: UR/0240/65/000/006/0012/0018	
AUTHOR: <u>Koshcheyev, V. S.</u> --Koscheev, V. S. (Moscow); <u>Bavro, G. V.</u> (Moscow) 43 39 0		
ORG: none		
TITLE: Some data on a comparative physiological-hygienic evaluation of <u>protective clothing</u> made of synthetic and natural fibers		
SOURCE: Gigiyena i sanitariya, no. 6, 1965, 12-18		
TOPIC TAGS: protective clothing, synthetic fiber, human engineering		
ABSTRACT: Although fabrics made of synthetic fibers surpass natural-fiber fabrics in mechanical properties, there have been complaints about their physiological and hygienic aspects. Therefore, the authors performed a comparative investigation of the hygienic and physiological properties of fabrics made of polyacrylonitrile fiber (nitron) and polyester fiber (lavan); the control used was the pure-wool fabric "boston" (in hygienic tests) and a suit made of this fabric (in physiological tests). The tests were performed in a microclimatic chamber with controlled temperature and humidity, using two healthy male subjects 26 and 30 years old who during the observations performed a standard amount of regulated work. The findings revealed that synthetic clothing, both regular and protective, may be used (along with clothing of natural fabrics)		
Cord 1/2	UDC: 613.481:678.5	

L 24210-66 -

ACC NR: AP6015177

in an environment with temperatures ranging from 18 to 35°C and a moisture content of 30-60% (in the absence of infrared radiation sources). In the temperature range between 18 and 28°C and in the presence of 30-60% humidity, during the performance of physical work of average stress, synthetic-fiber clothing assures adequate thermal comfort for humans. As the temperature drops to 15°C, synthetic-fiber suits in combination with cotton underwear do not assure adequate warmth. In an environment with a temperature of 50°C and humidity of 20-25%, workers in synthetic-fiber suits experience thermal discomfort and the functional systems of the organism become sharply upset. The lower (as compared with natural-fabric clothing) thermal resistance and water resistance of synthetic fabrics are the principal hygienic indexes restricting the possibility of widespread use of clothing made of these fabrics. Orig. art. has: 1 figure and 3 tables. [JPRS]

SUB CODE: 06, 05, 11 / SUBM DATE: 21Dec64 / ORIG REF: 002 / OTH REF: 002

Card 2/2 BLQ

Handwritten: Handwritten
KVEK, German Germanovich; ZHENKO, Kira Aleksandrovna; KATULIN, Konstantin Aleksandrovich; KUMRYAVTSEV, D.S., retsenzent; BAKUN, N.K., retsenzent [deceased]; BIRYUKOV, I.D., retsenzent; BAVSTROKA, N.F., red.; AKSENOVA, I.I., red.; MEDVEDEV, L.Ya., tekhn.red.

[Manufacture of gobelin fabrics] Proizvodstvo gobelenovykh tkani.
Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po legkoi promyshl., 1959.
133 p. (MIRA 13:3)

(Jacquard weaving)

(Gobelin tapestry)

BAVTRUKOVICH, A.A.; KADESNIKOV, G.I.

Automatic breakdown of coal in storage piles by means of a
pneumatic device. Koks i khim. no.2:58-61 '60.
(MIRA 13:5)

1. Moskovskiy koksogazovyy zavod.
(Coke industry--Equipment and supplies)

BAVYKIN, A.S. [Bavykin, O.S.]; KOPTENKO, V.T.

Automatic switching of the needle raising cams of the
FVPEM-10/100 knitting machine. Leh.prom. no.1:36-37
Ja-Mr '64. (MIRA 19:1)

BAVYKIN, G., inzh.

A new self-propelled suction dredge. Rech. transp. 24 no.11:
40-41 '65. (MIRA 19:1)

1. Krasnodarskiy sudoremontno-stroitel'nyy zavod.

BAVYKIN, I.V.

Change in the circuit of ChOSS-58 apparatus. Avtom., telem. i svyaz'
7 no.1:38 Ja '63. (MIRA 16:2)

1. Starshiy elektromekhanik Moskovsko-Rizhskoy dstantsii signalizatsii
i svyazi Moskovskoy dorogi.
(Railroads—Electronic equipment) :

BAVYKIN, N.A., red.; KUTOVOY, L.A., red.; MEDVEDEVA, T.V., red.

[National economy of Rostov Province; a statistical abstract] Narodnoe khoziasitvo Rostovskoi oblasti: statisticheskii sbornik. Rostov-na-Donu, Izd-vo "Statistika," 1961.
270 p. (MIRA 18:3)

1. BAVYKIN, V. A. ENG.
2. USSR (600)
4. Electric Cables
7. Maintenance and repair of the saw cable.
Les. prom. 12 no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

BAVYKINA, I. M.

More Metals (Cont.)	207/216
Lavrenko, V. V., E. I. Lomov, and O. V. Ivanov. Wrought Magnesium Alloys	209
RESEARCH METALS	
Timonen, R. M., E. A. Riehlman, and L. A. Krasovskaya. Magnesium Casting Alloys	219
Pills, A. J., R. F. Muller, S. A. Sridharan, T. M. Pichay, and J. M. Lortie. Investigation of Magnesium Alloys Containing Boron	227
Afanas'yev, I. A. Magnesium Alloys With Rare Metals	240
Kolobov, I. M., and V. V. Dolgov. Effect of Rare-Earth and Alkali-Earth Metals on Mechanical Properties of Magnesium Alloys of the Magnesium-Aluminum and Magnesium-Aluminum-Cerium Systems	259
PART V. RARE METALS IN STEELS	
Smolova, S. Ye. Effect of Rare-Earth Metals on Solter Distribution and Structure of Steels in the Chromium-Nickel-Molybdenum System	269
Cont 4/6	

PART I BOOK EXTRACTS

207/216

Research on the properties of rare metals and alloys. Proceedings of the 1970 All-Union Conference on Rare Metals Alloys, Moscow, Metallurgizdat, 1960. 28 p. 3,150 copies printed.

Descriptive Abstracts: Abstracts from 1959. Initial Metallurgy, CAS

Initial Metallurgy per metal alloy and metal-alloy combination handle.

Part I. Rare Metals. Ed. of Publishing House O.K. Leningrad, Feb. 1961. 240 p. 1,000 copies.

Abstracts. This collection of articles is intended for metallurgical engineers, scientists, and workers in the machine-building and metalworking industries. It may also be used by students of schools of higher education.

CONTENTS: The collection contains technical papers which were presented and discussed at the First All-Union Conference on Rare Metal Alloys, held in the Institute of Metallurgy, Academy of Sciences USSR in November 1970. Results of investigations of rare-metal alloys, titanium, and copper-base alloys with additions of rare metals are presented and discussed along with investigations of titanium, vanadium, niobium, and their alloys. The effect of rare-metal metals on properties of magnesium alloys and steels is analyzed. The use of titanium as a dehydrating catalyst, electroplating materials, and material suitable for making plugs for automobile electrical systems are discussed. Also, the effect of the addition of certain elements on the properties of heat-resistant steel is examined and alloys with special physical properties (particularly nonferrous alloys) are discussed. In particular, the properties of titanium and nonferrous alloys are discussed. In particular, the properties of titanium and nonferrous alloys are discussed.

PART II. TITANIUM AND COPPER-BASE

ALLOYS WITH RARE-METAL ADDITIONS

L 5028-66 EWT(m)/EWP(w)/EWA(d)/I/EnP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) IJP(c)

ACC NR: AP5022379 MJN/JD/HW

SOURCE CODE: UR/0136/65/000/009/0067/0071

AUTHOR: Kozlovskaya, V. P.; Bavykina, I. M.; Rad'kova, R. N.

ORG: none

TITLE: Mechanical properties and structure of cold-extruded aluminum-alloy tubes and bars

SOURCE: Tsvetnyye metally, no. 9, 1965, 67-71

TOPIC TAGS: aluminum alloy, alloy extrusion, extrusion, alloy tube, alloy bar, tube extrusion, bar extrusion, alloy mechanical property

ABSTRACT: The feasibility of cold extrusion of aluminum alloy tubes and bars has been investigated. AD1, AV, D1, and D16 alloy tubes 9, 8, or 7.2 mm in diameter, with respective wall thickness of 1.5, 1, or 1.1 mm, were cold extruded from hot extruded shells, at extrusion ratios of 14.2, 23.3, or 40. The mechanical properties of tubes 300-400 mm long were roughly equal to those of tubes produced by conventional methods (hot extrusion and cold rolling). For instance, cold-extruded D16 alloy tubes after heat treatment had a tensile strength of 43-50 kg/mm², a yield strength of 26 to 38 kg/mm², and an elongation of 14-20%, compared to 42 kg/mm², 26 kg/mm², and 14%, respectively, for conventionally made tubes. The mechanical properties of cold-extruded AV and D1 alloy tubes 1500 mm long decreased toward the rear end (a result of grain coarsening), but not below the values required by specifications. Cold-ex-

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UDC: 669.715-126:621.78

L 5028-66

ACC NR: AP5022379

truded D1 alloy tubes 16 mm in diameter and 1500—2000 mm long, tested in the as-extruded, annealed, and heat-treated conditions, were found to have technological properties (in bending, expanding, and squeezing tests) similar to those of conventionally made tubes, but a somewhat lower tensile strength (by 1 kg/mm²) and yield strength (by 3 kg/mm²) and a 5% higher elongation. An insignificant anisotropy of mechanical properties was observed in cold-extruded V96 alloy tubes tested in the as-extruded condition. The AD1, AV, and D16 alloy bars 30, 25, 18, or 16 mm in diameter cold extruded at extrusion ratios of 7, 10, 19, or 24 had better mechanical properties than those of bars produced by conventional methods; σ_{13} , $\sigma_{0.2}$, and σ_w were 40 kg/mm², 26 kg/mm², and 12%, respectively. Orig. art. has: 3 figures and 4 tables. [WW]

SUB CODE: MM/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4432

Card 2/2

L 37165-66 EWT(m)/EWP(w)/T /EWP(t)/ETI IJP(o) JD/OD

ACC NR: AT6016424

SOURCE CODE: UR/0000/65/000/000/0166/0172

AUTHORS: Dobatkina, V. I.; Kozlovskaya, V. P.; Bavykina, I. M. 43

ORG: none 151

TITLE: Influence of structure on the mechanical properties of pressed products manufactured from alloy D16 for different types of applied loads

SOURCE: AN SSSR. Institut metallurgii. Metallovedeniye legkikh splavov (Metallography of light alloys). Moscow, Izd-vo Nauka, 1965, 166-172

TOPIC TAGS: solid mechanical property, tensile strength, aluminum alloy / D16 aluminum alloy 27

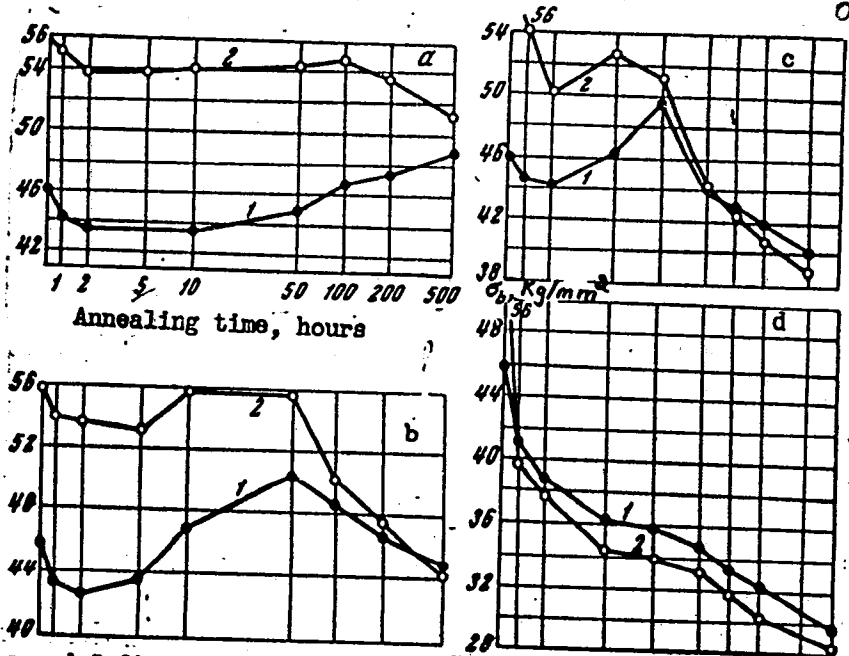
ABSTRACT: The effect of recrystallization on the mechanical properties of parts manufactured from alloy D16 was investigated. The investigation supplements the results of V. I. Dobatkina (O presseffekte v alyuminiyevykh splavakh, Sb. Issledovaniye splavov tsvetnykh metallov, vyp. 3 Izd-vo AN SSSR, 1962). The mechanical properties and microstructure of nonrecrystallized and recrystallized specimens were determined as a function of the type and magnitude of applied load. The experimental results are presented in graphs and tables (see Fig. 1). It was found that artificial aging of the alloy at elevated temperatures tended to smooth out any differences in the mechanical properties of non- and recrystallized specimens. 18

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L 37165-66

ACC NR: AT6016424

Fig. 1. Change in the tensile strength at room temperature of 20-mm diameter rods manufactured from alloy D16 having a recrystallized (1) and non-recrystallized (2) structure as a function of annealing time at temperatures of 150C (a), 1750 (b), 200C (c), and 250C (d).



Orig. art. has: 2 tables and 5 figures.

SUB CODE: 11/ SUBM DATE: 16Sep65/ ORIG REF: 007/ OTH REF: 002

Card 2/2 of

L 13084-55 EFA(s)-2/AS(10)/ENP(10) I-10 AS(mp)-2/SSD/APWL/
ESD(t) RDM/JD/JC

ACCESSION NR: AP4047368

S/0139/64/000/005/0182/0184

AUTHORS: Mokhov, G. D.; Bavy*kina, V. N.; Bazakutsa, V. A.

TITLE: Concerning the geometry of samples of selenium with spectral
memory 27

SOURCE: IVUZ. Fizika, no. 5, 1964, 182-184

TOPIC TAGS: selenium photocell, anomalous photoconductivity,
mercury vapor treatment, photocell resistance, photosensitivity

ABSTRACT: One of the authors (Mokhov et al., Izv, vuzov SSSR, Fizika, No. 4, 1959 and FTT v. 3, No. 9, 2667, 1961) has previously observed that certain samples of selenium treated with mercury vapor has spectral memory (anomalous photoconductivity), but the production of such samples is difficult to control at the present time, owing to the lack of a convincing explanation of either the mechanism of the anomalous photoconductivity and the processes which lead to

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L 13084-65

ACCESSION NR: AP4047368

its occurrence. Other tests by the same authors (FTT v. 3, No. 5, 1366, 1961 and v. 5, No. 2, 559, 1963) have shown that this anomalous photoconductivity is confined to the region near the electrodes. The present investigation was made with the geometry illustrated in Fig. 1 of the enclosure, and confirmed the previous conclusions. After deposition of the upper electrodes the resistance of the samples decreased by 2--3 orders of magnitude and the sensitivity vanished. However, 40--50 hours after the deposition of the upper electrodes the conductivity of the samples resumed its initial value without any external influence, and the samples returned to their previous photosensitivity. Only the regions near the electrode (AB and CD of the figure) proved to be photosensitive. This is also confirmed by the fact that if the samples are again placed in a mercury vapor atmosphere after formation of the upper electrodes, their resistance does not change, and no HgSe film is produced in the region near the electrodes. The fact that the mercury does not diffuse from the gaseous phase into the regions near the electrode is

Card 2/4

I 13084-55

ACCESSION NR: AP4047368

Due to the influence of the space charge which extends into the selenium layer in this region. It is noted that samples with the geometry shown in the figure also have anomalous photoconductivity, so that the selenium layer over the lower electrodes does not influence the occurrence of spectral memory in these samples. Orig. art. has: 3 figures.

ASSOCIATION: Khar'kovskiy politekhnicheskij institut (Khar'kov Polytechnic Institute)

SUBMITTED: 12Jul63

ENCL: 01

SUB CODE: OP, EE

NR REF SOV: 004

OTHER: 000

Card 3/4

L 13084-65

ACCESSION NR: AP4047368

ENCLOSURE: 01

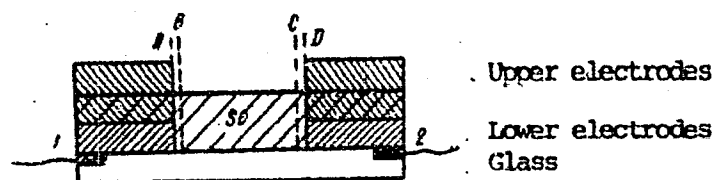


Fig. 1. Geometry of selenium samples

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L 24362-66 EW(1)/EW(m)/ETC(f)/EWG(m) RDW/JD
ACC NR: AP6008117 SOURCE CODE: UR/0139/66/000/001/0182/0183

AUTHORS: Mokhov, G. D.; Bavykina, V. N.; Bazakutsa, V. A. 26
B

ORG: Khar'kov Polytechnic Institute (Khar'kovskiy politekhnicheskiy institut)

TITLE: Distribution of the photosensitivity of selenium samples having anomalous photoconductivity 27

SOURCE: IVUZ, Fizika, no. 1, 1966, 182-183

TOPIC TAGS: selenium, photoconductivity, photosensitivity, mercury containing alloy

ABSTRACT: This is a continuation of earlier studies of the photoconductivity of selenium treated with mercury vapor (Izv. vuzov SSSR, Fizika, No. 5, 182, 1964 and others). In the present paper the authors present experimental results of an investigation of the distribution of the photosensitivity in the light-sensitive region near the electrode. The investigation was made with a specially prepared setup, in which an optical probe of width 0.1 mm was produced. The sample 2

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L 24362-66

ACC NR: AP6008117

was moved relative to the optical probe with the aid of a micrometer screw, so that the photosensitivity of different sections of the sample could be determined. The spectral components were determined with a monochromator (UM-2). The sample preparation technology was described in the earlier paper. The maximum relative photosensitivity (increase of photosensitivity above its dark value) occurred at approximately 0.25 mm from the edge of the metallic electrode with which the photosensitive region is in contact, regardless of the wavelength of the applied light. In the case of wavelengths longer than 5300 Å, all the regions of the selenium layer had only positive photoconductivity. At lower wavelengths, certain sections of the region next to the electrode had negative photoconductivity. Qualitatively comparable results were obtained for both positive and negative voltage applied to the electrode. The results confirm the earlier deductions that the mercury atoms do not penetrate uniformly in the electrode regions of the investigated samples during production of the layer. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 10Jul64/ ORIG REF: 005/

Card

2/2 *pla*

[illegible]

BAVYKINA, Yu. B.

Geophysical prospecting by the vertical electric logging method
in the Kyakhta sillimanite shale deposit. Trudy Vost.-Sib. fil.
AN SSSR no.13:47-49 '58. (MIRA 12:12)

1. Selenginskaya geologorazvedochnaya partiya tsentralizovannoy
ekspeditsii tresta No.1.
(Kyakhta District--Prospecting--Geophysical methods)

RYAZANOV, F.A., inzh.; POLIBINA, T.D., inzh.; NAZAROVA, L.F., inzh.;
KARLINER, I.N., inzh.; MITROKHINA, A.P.; tekhnik; VORONKOVA,
A.S.; tekhnik; BAVYKINA, Z.I., tekhnik; VINNITSKIY, D.Ya.,
inzh., red.; VELITSYN, B.L., tekhn. red.

[Norms for the expenditure of metal and pipe in the
manufacture of nonstandard heat equipment and low-pressure
pipelines for thermal electric power plants] Normy raskhoda
prokata i trub na izgotovlenie nestandartnogo teplomekhaniche-
skogo oborudovaniia i truboprovodov nizkogo davleniia dlia
teplovykh elektrostantsii. Utverzhdeny Tekhnicheskim upravle-
niem Ministerstva stroitel'stva elektrostantsii (Reshenie
No. 167 ot 31 iuliia 1961 g. Moskva, Orgenergostroi 1962.
230 p. (MIRA 16:10)

1. Vsesoyuznyy institut po proyektirovaniyu organizatsii ener-
geticheskogo stroitel'stva "Orgenergostroy."
(Electric power plants) (Pipe mills)

BAWANKIEWICZ, Wiktor, dr.farm.

Importance of rational nourishment for the development of school attending youths based upon results of investigations carried out on children of the elementary school in Zaklikowo Town.
Farmacja Pol 18 no.6:138-139 Mr '62.

BAWELSKI, L.

How to improve the work of track watchman. p.75.

PRZEGIAD KOLEJOWY DROGOWY. (Wydawnictwa Komunikacyjne) Warszawa, Poland.
Vol. 11, no. 4, Apr. 1959.

Monthly list of East European Accessions Index, (EEAI) IC, Vol. 8, no. 66
June, 1959
uncla.

~~RAWLI~~
~~RAWLI, J.~~

"New compensation system in surveying". p.353. (PRZEGLAD GEODEZYJNY
Vol. 10, No. 12, Dec. 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions. (EAL). LC. Vol. 4, No. 4,
April 1955, Uncl.

BAWOLSKA, Maria

Observations on the susceptibility of tobacco varieties (*Nicotiana tabacum* L.) to downy mildew of tobacco (*Peronospora tabacina* Adam.).
Postepy nauk roln 9 no.3:43-57 My-Je '62.

1. Zaklad Biologii Hodowlanej, Instytut Uprawy, Nawozenia i
Gleboznawstwa, Pulawy.

BAWOLSKA, Maria; BERBEC, Jan; KONGZEREWICZ, Antoni

The effect of heterosis in tobacco hybrids (*Nicotiana tabacum* L.).
Roczn. nauk roln. rosl 81 no.4:845-878 '60. (KEAI 10:9)

1. Pracownia Hodowli Tytoniu IHAR w Pulawach i Centralne Laboratorium
Przemyslu Tytoniowego w Krakowie.

(Tobacco) (Heterosis)

BAWOLSKA, Maria

Effect of high temperatures upon the lowering of infectious properties of the tobacco mosaic virus. Rocznik roln. rosl 86 no.2:187-194 '62.

1. Zakład Biologii Hodowlanej, Instytut Uprawy, Nawożenia i Gleboznawstwa, Pulawy. Kierownik: Prof. dr S. Lewicki.

BAWOLSKA, Maria

Observations on the susceptibility of some wild species of the genera *Nicotiana*, *Nicotiana tabacum* L., and *Nicotiana rustica* L. varieties to *Peronospora tabacina* Adam. *Postepy nauk roln* 10 no.3:51-63 My-Je'63

1. Zaklad Roslin Specjalnych, Instytut Uprawy, Nawozenia i Gleboznawstwa, Pulaw.

BAWOLSKA, Maria

Production of F₂ seeds of tobacco hybrids (*Nicotiana tabacum* L.) resistant to downy mildew (*Peronospora tabacina* Adam). Postepy nauk roln 11 no. 2:93-98
Mr-Apr '64.

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